

No. 2 Directions as a remedy
for certain diseases.
Inaugural Dissection 1809.

unctions as a remedy for certain
diseases.

Submitted to the examination of
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the

Trustees & Medical faculty

of the
University of Pennsylvania,
For the Degree of

Doctor of Medicine by
Lazarus Horsey of
Maryland 1809

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Upon fictions as a remedy for
certain diseases

Fiction is a mechanical point of view
may be considered as that resistance which
arises from the rubbing hard bodies one
against another, but in a medical the rub-
bing of a part of the body, by which its
action is increased, the latter as applied
to the body for the cure of certain diseases
is what I shall particularly confine
myself to. — This remedy I believe has
been used in every age & nation for the
cure of certain diseases, but on acc-
ount of its indiscriminate use (arising
probably from a want of proper distinction
being made between weak & great morbi-
ation) it was not followed with that suc-

and the book remained in a
place where it could be read and
was often read, for it had an
influence on me that will never be
forgotten, and the first of
all that I read in education was
a copy of *How to Read*. It is good. It
was published about ten
years ago, and all — of
all the books I have ever
seen in the library (and there are
thousands) are the same. The
same book is now in use in
most every school in the
country. The author is a man of
great ability, and has written
several books, but this is his
best. The *How to Read* book is
the best book I have ever seen.

up which the nature of the remedy & its
effects on the healthy constitution seems
to promise & of course falls into disrepute
together with others, some of which are
to be ranked among the most important
articles of the Materia Medica. It may
not be improper to mention that this was
the case in the reign of ~~Assoult~~ Assoult, when her
empire was coextensive with the earth or
in other words when she reigned universal-
ly. —

Happily for the Science of Medi-
cine, the name of a disease is no longer
considered the sine qua non to successful
treatment. There ^{are} revolutions in Medicine
as in empires & to the great honour &
glory of America she has gained her in-
dependence. We may now hail! our
happy Country not only as the land of
liberty, but of philosophy & just principles
in Medicine. The weak medicines have

1821 arrived with my arrival my father
and mother have settled all the day
business and all seems to be arranged
as desired so now with this will
business will be given up and
left to myself until the time
when both parents & relatives &
other affairs of myself in our
house all the business are in
business department the same will
and go myself to collect
again with myself a man to
attend to business and all business
& money kept all of business in
one place and all accounts to be
kept all in one book and
every thing to be paid to but
business for business the
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circumstances

have become strong, the next act, & the
poisonous govern'd in their operator by the
establishment of principles in Medicine —
Every article in the Materia Medica is either
Remedy or poison according to the dose &
state of the system in which it is exhibited.
Friction which I design as the subject of this
essay is now to be snatched from amidst the
numerous & to be placed among the active &
more important articles of the Materia Med-
ica.

Treatments of Friction

The dry hand, the flesh brush, flannel or
linen, simile or impregnated with Myrrh
as in China or other aromatic gums & lin-
aments of a stimulating nature, or sweat
oil. — These are to be used according
circumstances & varied from the most ap-
plicable titillation to the most agreeable

the same time it will reward
it I intend with a heavy hand
and a reward of hundred
pounds reward. It is evident
to me that a sufficient sum of
money is to be in hand at first
to prevent it to spread so as to
alarm and distract it so that it
will never be gone. And it is to
be insisted that it is to be
done in a secret and
discreet manner.

Effect

To effect
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& health
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Interest & Mortification

or mortify and kill all dead vices
and the imagination is always
in every man's heart, a man
cannot get rid of it, so
long as he is in the world.
and it is the best
cure for all manner of
sorrows.

fair, at the nature of the case or state of the system may demand. Different effects may be produced according to the smoothness & asperity of the bodies employed or the acridity & stimulating nature of the articles.

Effects of friction on the blood vessels

It accelerates the circulation of the blood by increasing the action of the heart & arteries, thereby contributing to the growth, nutrition & health of animals. promotes secretion & excretion, promotes absorption, removes tetration &c. And when used in moderation produces all the bad effects that result from the excessive use of other stimuli.

On the nerves

up in one
by steam
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& then by a
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one on the
water. All
can to be
soaked
in water

to increase the sensibility of the nervous system; hence Dr. Rush directs the end of the fingers to be rubbed on a rough surface previous to flogging the patient, when you wish to determine on the sensibility of blood letting in doubtful cases.— Sensations the most pleasurable as well as most painful are excited by this cause, by varying the degree of action only. There is not all the good as well as evil in the world but is abutted in part to this or something which acts similarly on the nervous system, producing pleasure or painful sensations, & thereby propitiating to death the most unmerciful or atrocious, according as the one or the other of these sensations predominates. All the passions & emotions of the mind are to be founded on sensations & these may not be by action directly or in perception accord-

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to the degree of action of this or some similar cause producing a pleasurable or painful irritation. — Under the lenses moreover, who is it that holds not, with respect to the tender infant, after having awoken from profound sleep, unable to tell, distinguish one object from another, till it had rubed its little eyes & gazed them that brilliancy & lustre which seems necessary to perception. May it not be that in the mind in trying to dis recollect long lost or forgotten scenes, we see something like this in the hour of study, or in persons anxious to recollect some past event, rattling their fore heads, & this they do without being conscious of it. As the lenses are the avenues to knowledge, whatever renders them more or less service contributes especially to the facility of acquir ing knowledge as well as the durability of retaining it. The more

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The more exquise the sensation the quick
er the perception & more durable is the
impression, made on the mind. May not
the mind of Man be considered as a mass
of sensible perceptions & the difference in
Minds or Capacities of Men, be owing to
their perceptions being differently combined
etc. combined or associated, constituting
faculties, ideas & thoughts? —

On the Muscles

They may be divided into voluntary
involuntary or mixed; it excites their
action, gives tone & strength to them
& when immoderately used converts the
voluntary into involuntary, constituting
spasms, convulsions, &c —

Mr.

the dinner
gathered
about him
in the boat

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Mr.

He should
cording to

On the Bowels

It diminishes their action, inducing
listlessness, by producing a new & counter
action; but its use in diarrhoea, pains
in the bowels, colic &c

On the Skin

It produces heat, itching, redness, pain
of earache &c. When gentle constituents
that apparently agreeable sedative calm-
ing, which every child has felt with
habitual transport.

The parts to which it should be applied

It should be used generally & partially, ac-
cording to circumstances. The following

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Experiments were instituted, to prove the
stimulant nature when partially applied.
The experiments were made on my self.
At the instance of one of my fellow
Students, at 12 o'clock at night my
pulse beating 64 strokes in a minute.
Friction was first made with the dry
sand, being previously warmed; this
was applied to my right arm & contin-
ued for two minutes, when the pulse
was examined which was as follows.

My pulse beating 64 strokes in-
a minute. —

The number of beats was carefully exam-
ined in both arms. —

Right arm

Minutes 2, 3, 5, 6, 8, 10, 15, 20
pulse 64, 64, 65, 65, 66, 68, 73, 76

Minutes 2, 3, 5, 6, 8, 10, 15, 20
pulse 64, 64, 64, 64, 65, 65, 66, 68

when the friction was stopped

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The circumference of the pulley was continued
till the friction was staled the results were
as follows

right arm

Wheels 25 30, 35, 40, 50, 60, 70, 80, 100
pulleys 76 75, 75, 73, 70, 70, 68, 66, 64

left arm

Wheels 25 30, 35, 40, 50, 60, 64, 80, 100
pulleys 68, 65, 65, 64, 64, 64, 64, 64

By this experiment we find after having gone
wheels 100, but more particularly so in
the right arm to which the friction was ab-
sorbed in the portion of 68 to 76. That is
absorbed 8 beads more in the right than left arm. —

It may not be necessary to observe
that the friction was removed, the pulley retained
its natural standar, much sooner in
the left than right arm as may be seen
in the above of experiment. —

Experiment 2.

Upon a polished or spirit of wine & water
the hand was applied to the same arm,
the result was as follows —

A section cut was made in the femur, bisected with the rotator, examined & able to be found to contain the vessels was follows:

Great care being exercised in the examination of the pulse in both arms & were the ^{power} of the anterior tibial artery.

Specimen was made at 1 o'clock in the afternoon.

After pulse taking 80 strokes in the minutes

Anterior tibial artery

Minutes 2, 5, 10, 15, 20
pulse 80, 81, 83, 85, 88

At the side

Minutes 2, 5, 10, 15, 20
pulse 80, 80, 81, 85, 88

The anterior tibial artery of both legs in the specimen examined without any perceptible diffit. of power being observed in their pulsation, the power being equal to the side, some small appearance of power, the pulse in the right side.

flannel
and all
the way.

ried in the
the arm
selves.

at 10 a.m. when the patient was seated
it returned to 18 stethes standard reading
stethes in the same order as in the former case with
the difference only, the pulse in the right
arm continued excited much longer.—

Experiment was made to look in the
afternoon the next day with another set
of stethes in spite of these the following
was the result —

To day we did the experimental work on the left arm
with a stethes impregnated with the same
calamine lotion.

all off
a great
pulse

180 pulse beats, 18 stethes
normal

rather more frequent, scarcely amounting to 1 beat in 2 minutes. —
Experiment 2.

Friction was made on my back with a notched implement at 12 o'clock. At 15^o my inter-beat 60 strokes in 10 minutes. The effects produced were as follows.

The anterior tibial artery & both legs, together with the radial artery & both arms were examined.

My pulse beaten 60 strokes in 10 minutes

At the Rister

Minutes 2, 5, 10, 15, 20
pulse 64, 64, 65, 66, 68

At the ankles

Minutes 2, 5, 10, 15, 20
pulse 64, 64, 65, 65, 68

Concluded the friction for 20 minutes. It was the first attempt to be no perceptible, but that the effect in the circulation, at the 20th Rister & a minute at the ankles, concurring, to beat 68 & 68 in 10 minutes, when we ceased to examine.

Left arm

Minutes 1, 2, 3, 4, 5, 6
pulse 68, 70, 73, 76, 80, 88

Right arm

Minutes 1, 2, 3, 4, 5, 6
pulse 68, 68, 71, 73, 76, 80

When I ceased to examine it. —
My pulse was not only increased in frequency, but in fullness & force, continually, all the afternoon & till 9 o'clock at night, when I was compelled to go to bed in consequence of a violent pain in the head with throbbing of the temples & a burning in all probability, from the cause, for I knew of no other to expect.

It was the opinion of the illustrious Waller that the arteries were not endowed with a contractile ^{power} of course they could not be pulsatile in the arteries independent of the action of the heart; but this opinion is ably & satisfactorily refuted

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In Dr. Hultz, he infers it, 1^o from the
pulsations exhibited in several diseases, in
all local inflammations a paroxysm
for instance, there is violent action of
the arteries, totally unconnected with the
action of the heart, for the pulse will
beat one hundred strokes in a minute
in the parts affected & the usual number
at the heart. 2^o from the muscular fibre
of the nerves of the arterial coats, the
muscular fibres being distincts of irriti-
bility. He goes still further & contends
for the contractility of the veins. This I
infer says our illustrious author; 3^o from
the muscular nature of these
fibres & 2^o from pulsation being observed
in the vena cava near the heart. So
my experiments goes to confirm this
his doctrine, proving the fact uncon-
trovertably. —
Having described pulsions, the parts to

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17. June

There are
several
circumstances
of the day
which are
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My work
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from the
factory
in the house

which they should be applied, their effect on the blood vessels, nerves, muscles, &c., skin &c. Mention'd their effects when applied generally & locally & always their influence on the pulse. We will now proceed to speak of them in the cure of certain affections.

1st part of all diseases of weak action

Here it should be applied either generally or locally according to the circumstances of the case & nature of the disease, with the other hand, flesh brush or flannel sponge or empryable w. A certain stimulatory substance as Myrrh, Camphor dissolved in Spirit of Wine or volatile incense &c. — From the experiments made above on the healthy constitution, we may readily suppose them to be of advantage & which

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100. 100

proceed to be the case by the testimony
of even medical writers. I would however
say, no man has a Physician to depend
upon this alone as a remedy, for however
extents it may be in itself, it may
frequently fail for the want of the co-
operation of some other medicine. What
Physician is there, that trusts to our
medicines alone for the cure of a disease
however powerfull or inestimable it
may be? Not one. To see he would
inspire a belief in an Specific, which
is absurd. —

Smellor seems more particularly adapted
to the cure of certain disorders, as Typhus
fever, Rheumatalgia, Rheumatalgia &c.
in our former way Typhus fever & Rheum-
atalgia would generally & probably more
advantage would be derived from from
the Flea-bush. — for Rheumatism.

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General
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L. -

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of Neuralgia, it should be applied to the extremities. The skin, hand or nail varnished with certain stimulating substances would be best.

The obstructed viscera
should be applied to the abdomen opposite to the viscera or viscera affected.

The obstructed respiration.
The application of friction should be made to the whole surface of the body, & frequently repeated.

The old age
This is characterized by rigidity of joints, loss or impaired sensibility

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is seeing, hearing, touch. loss of
premury, insensibility of body. & mind
tremors, convection of blood may
up of head falling off, the
hair etc. — I think in this effect
of lectures on animal life; makes
like the effect of certain elements
acting on sensibility & excitability
which is extended on different objects
both external & internal; over the whole
body; now as there is great abreaction
of the natural stimuli a old age
life must necessarily languish;
this may be in part remedied or
at least old age may be rendered
comfortable, by substituting certain
new elements; there is now cer-
tainly no pleasure in this; but as

in full

Drawn

in blue

in red

Chancery

Plan a

counter

11. Pow

er in blue

W. D. 200

in blue

W. D. 200

friction. To obtain the greatest
danger from this, it should be
applied over the whole body & daily
repeated. The Chinese custom of
Chauenfouing which is nothing more
than a modification of friction, is
considered by them of the greatest
importance in old age, renovating
a diminishing as it were the old,
producing a return of youthfulness
and activity. This being a fact
I have now in my collection
a book perfectly written & containing
an account except the time. —

The coldness of the extremities
friction has been a remedy in this
case, even in meiosis as I call

from ?
the man
her M.
daughter

Section

Concord
Lorraine

where
had
you
the
time
to come
to town
to phone
for more
of the

from the latest records of Physic.
We want no better proof of the efficacy
here than is contained in, at this
enlightened period of medical science.

The Head-ache

Friction bids fair to be an excellent
remedy here, how soon fact will
be shown by Dr. Rush in his lectures
where the most exquisitely painful
feelings, & pleasurable sensations, this
we know can be excited to the most
acute degree by friction. Men
of themselves are the parts to which
it should be applied in this disease,
& more particularly, to the palmar
& the dorsal & soles of the feet. —

The time for using fictions

This is of great importance to be known; for its failure in the case of slaves, is frequently. I have no doubt to be attributed to this cause. To the experienced physician, who has made the laws & functions of the animal economy his study, the following observations would be unnecessary; but how few are they who either observe correctly, reason properly or judge rightly of the nature & disease. Such without a guide, would be dangerous men to society, & I then no doubt (in the language of Hydman) they would play their thousand parts. The time of using it appears to me to be most proper in the morning, for this reason

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the system - is in a more excitable state at that time & of course the heat produced will be much greater, not having any of its excitability exhausted by the numerous stimuli that act on the body during the day. —

The manner of letting friction

It should be gentle at first & increase gradually in force, till an desired effect is produced. & —

the length of time for applying it —

Should be according to circumstances & generally from half an hour to an hour will be found to answer best. —